

FY 2007 ENERGY MANAGEMENT DATA REPORT

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PART 1: ENERGY/WATER CONSUMPTION AND COST DATA

1-1. EPACT/E.O. 13423 Goal Subject Buildings

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. GHG Emissions (MTCO ₂ e)
Electricity	MWH	26,998,532.6	\$1,979,699.4	\$0.07 /kWh	92,119.0	319,932.6	17,862,794
Fuel Oil	Thou. Gal.	157,936.2	\$317,135.0	\$2.01 /gallon	21,905.7	21,905.7	1,606,786
Natural Gas	Thou. Cubic Ft.	65,109,519.0	\$601,955.1	\$9.25 /Thou Cu Ft	67,127.9	67,127.9	3,567,849
LPG/Propane	Thou. Gal.	13,929.3	\$20,800.0	\$1.49 /gallon	1,330.3	1,330.3	82,915
Coal	S. Ton	620,122.7	\$53,656.5	\$86.53 /S. Ton	15,242.6	15,242.6	1,462,376
Purch. Steam	BBtu	6,895.9	\$179,655.5	\$26.05 /MMBtu	6,895.9	9,585.3	919,705
Other	BBtu	499.1	\$3,009.1	\$6.03 /MMBtu	499.1	499.1	
		Total Costs:	\$3,155,910.5		Total:	435,623.5	25,502,425
Goal Subject Buildings (Thou. Gross Square Feet)		1,892,554.3			Btu/GSF:	230,178	
					Btu/GSF w/ RE Purchase Credit	222,987	
					Btu/GSF w/ RE & Source Btu Credit	222,987	

1-2. EPACT/E.O. 13423 Goal Excluded Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. GHG Emissions (MTCO ₂ e)
Electricity	MWH	2,657,570.5	\$204,042.1	\$0.08 /kWh	9,067.6	31,492.2	1,758,304
Fuel Oil	Thou. Gal.	6,106.9	\$10,965.8	\$1.80 /gallon	847.0	847.0	62,129
Natural Gas	Thou. Cubic Ft.	2,281,863.2	\$20,132.1	\$8.82 /Thou Cu Ft	2,352.6	2,352.6	125,041
LPG/Propane	Thou. Gal.	147.0	\$250.9	\$1.71 /gallon	14.0	14.0	875
Coal	S. Ton	6,222.5	\$559.8	\$89.97 /S. Ton	153.0	153.0	14,674
Purch. Steam	BBtu	481.1	\$24,262.1	\$50.43 /MMBtu	481.1	668.8	64,168
Other	BBtu	26.4	\$573.0	\$21.71 /MMBtu	26.4	26.4	
		Total Costs:	\$260,786.0		Total:	35,554.0	2,025,191
Goal Excluded Facilities (Thou. Gross Square Feet)		61,674.4			Btu/GSF:	576,479	
					Btu/GSF w/ RE Purchase Credit	576,479	
					Btu/GSF w/ RE & Source Btu Credit	576,479	

1-3. Non-Fleet Vehicles and Other Equipment (Does not include Fleet Vehicle Data Captured by FAST System)

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Btu (Billion)	Est. GHG Emissions (MTCO ₂)
Auto Gasoline	Thou. Gal.	67,342.1	\$155,560.3	\$2.31 /gallon	8,417.8	596,651
Diesel-Distillate	Thou. Gal.	518,328.9	\$1,047,024.3	\$2.02 /gallon	71,892.2	5,258,915
LPG/Propane	Thou. Gal.	0.0	\$0.0	/gallon	0.0	0
Aviation Gasoline	Thou. Gal.	839.6	\$3,921.0	\$4.67 /gallon	105.0	7,262
Jet Fuel	Thou. Gal.	3,504,548.2	\$7,009,096.4	\$2.00 /gallon	455,591.3	32,292,309
Navy Special	Thou. Gal.	698,935.5	\$1,293,030.6	\$1.85 /gallon	96,942.3	7,091,333
Other	BBtu	875.1	\$3,832.8	\$4.38 /MMBtu	875.1	
		Total Costs:	\$9,512,465.4		633,823.6	45,246,470

Optional 1-3a. Fleet Vehicle Consumption and Costs Captured by the FAST System

(Input reflects format of Section IV, Part C, Annual Fuel Consumption Report, by Fuel Type of FAST SF 82 - Aggregate Combined Report)

Description	Consumption Units	Annual Consumption	Annual Cost (Actual \$)	Btu (Billion)
Biodiesel	GEG	5,145,315.0	\$10,534,262	643.2
Diesel	GEG	19,824,553.0	\$42,099,460	2,478.1
Electric	GEG	2,259.0	\$6,777	0.3
E-85	GEG	1,122,457.0	\$3,605,260	140.3
Gasoline	GEG	75,156,215.0	\$189,918,319	9,394.5
Hydrogen	GEG			0.0
M-85	GEG	98.0	\$473	0.0
LPG	GEG	3,924.0	\$9,616	0.5
NG	GEG	484,775.0	\$714,896	60.6
Other	GEG			0.0
TOTAL	GEG	101,739,596.0	\$246,889,063	12,717.4

1-4. RENEWABLE ENERGY GENERATED ON FEDERAL OR INDIAN LAND WHERE RECS ARE RETAINED BY THE GOVERNMENT

(New renewable energy is from projects placed in service after January 1, 1999)

Renewable energy project types in service during FY 2007, by age and source	Number of Projects	Annual Energy Produced	Energy Produced on Federal or Indian Land and Used at a Federal Facility
Electricity from <i>New Solar</i> projects (MWH)	66.0	8,990.5	8,990.0
Electricity from <i>New Wind</i> projects (MWH)	11.0	10,176.0	10,154.1
Electricity from <i>New Biomass</i> projects (MWH)	0.0	0.0	0.0
Electricity from <i>New Landfill Gas</i> projects (MWH)	1.0	7,570.0	7,570.0
Electricity from <i>New Geothermal</i> projects (MWH)	1.0	64.0	64.0
Electricity from <i>New Hydro/Ocean</i> projects (MWH)	2.0	41,070.0	41,070.0
Electricity from <i>Old Solar</i> projects (MWH)	11.0	2,674.6	2,674.6
Electricity from <i>Old Wind</i> projects (MWH)	1.0	1,182.0	1,182.0
Electricity from <i>Old Biomass</i> projects (MWH)	1.0	561.0	561.0
Electricity from <i>Old Landfill Gas</i> projects (MWH)	0.0	0.0	0.0
Electricity from <i>Old Geothermal</i> projects (MWH)	0.0	0.0	0.0
Electricity from <i>Old Hydro/Ocean</i> projects (MWH)	0.0	0.0	0.0
Natural Gas from Landfill/Biomass (Million Btu)	0.0	0.0	0.0
Renewable Thermal Energy (Million Btu)	74.0	674,917.7	674,733.4
Other Renewable Energy (Specify Type) (Million Btu) - Air Force 2 projects - 9729 Mbtu-Daylighting and Solar water heating Navy 61 Daylighting Projects-19552.5 Mbtu Tricare Management Agency-1 Waste-to-Energy Project - 96609 MBtu	64.0	125,890.5	125,890.5
Total New Renewable Electricity (MWH)	81	67,870.5	67,848.1
Total Old Renewable Electricity (MWH)	13	4,417.6	
Non-Electric Renewable Energy (Million Btu)	138	800,808.2	
Total Renewable Energy Generation (Million Btu)	232	1,047,455.2	

1-5. ON-SITE RENEWABLE ENERGY GENERATION WHERE RECS ARE NOT RETAINED BY THE GOVERNMENT

(This energy is only counted toward the renewable energy goal if the agency has enough new RECs to qualify for the on-site bonus.)

	Amount Produced or Used	Amount Qualified for Goal
Renewable energy reported here comes from projects: 1) placed in service after 1/1/1999 (New) ; 2) where RECs have not been retained by the government; 3) where the amount has not been reported elsewhere on this data report; and 4) where the energy or RECs have not been sold to another agency that is counting it toward their renewable energy goal. (MWH)	345,333.4	345,333.4
Renewable energy reported here must come from projects: 1) placed in service before 1/1/1999 (Old) ; 2) where RECs have not been retained by the government; 3) where the amount has not been reported elsewhere on this data report; and 4) where the energy or RECs have not been sold to another agency that is counting it toward their renewable energy goal. (MWH)	1,400,000.0	140,373.6

1-6. RENEWABLE ENERGY/RENEWABLE ENERGY CERTIFICATE PURCHASES IN FY 2007

(New renewable energy is from resources developed after January 1, 1999)

Description of <i>Each</i> Renewable Energy Purchase (examples below, insert additional rows as necessary for each separate purchase. Insert rows after the first row of each color-coded category.)	Total Amount Purchased (MWH)	Total Amount Purchased (Million Btu)	Portion of Total Purchased from Projects on Federal or Indian Lands	FY 2007 Goal Application Renewable Energy Goal (RE) Energy Efficiency Goal (EE) Credit	End Use Category (Goal or Excluded)	State or Region of Generation or Source
Electricity from <i>New Renewable Source</i>	125,786.0		0.0	RE: 100% EE-Credit: 100%	Goal	
RECs from <i>New Renewable Source</i>	359,921.0		0.0	RE: 100% EE-Credit: 100%	Goal	
Electricity from <i>Old Renewable Source</i>	0.0		0.0	RE: Up to 1.5% of total electricity use EE-Credit: 100%	Goal	
RECs from <i>Old Renewable Source</i>	528,373.9		0.0	RE: Up to 1.5% of total electricity use EE-Credit: 100%	Goal	
Gas from Renewable Source		0.0	0.0	RE: no contribution to goal EE-Credit: 100%	Goal	
Thermal Energy from Renewable Source		1,591,691.0	0.0	RE: no contribution to goal EE-Credit: 100%	Goal	
Total Purchases of New Renewable Electricity or RECs	485,707.0					
Bonus for Purchases from New Projects on Federal or Indian Land	0.0					
Total Purchases of Old Renewable Electricity or RECs	528,373.9					
Purchases of Non-Electric Renewable Energy		1,591,691.0				
Total Purchases for Goal Buildings	1,014,080.9	1,591,691.0				
Total Purchases for Excluded Facilities	0.0	0.0				
Total All Purchases	1,014,080.9	1,591,691.0				

1-7. GOAL-ELIGIBLE RENEWABLE ENERGY USE AS A PERCENTAGE OF FACILITY ELECTRICITY USE

(Calculated from input above per FEMP Renewable Energy Guidance)

Components of Eligible RE Use	Renewable Electricity Use (MWH)	Total Facility Electricity Use (MWH)	RE as a Percentage of Electricity Use
Eligible RE Total	1,639,924.1	29,656,103.1	5.5%
New RE (without Bonus)	898,910.9	% of eligible that's	
Bonus, Federal or Indian Land	67,848.1	New	3.3%
Eligible Old RE	673,165.1		

1-8. ALL RENEWABLE ENERGY USE (INCLUDING NON-ELECTRIC) AS A PERCENTAGE OF FACILITY ELECTRICITY USE

(Calculated from input above for information only)

All Renewable Energy Use (Billion Btu)	Total Facility Electricity Use (Billion Btu)	RE as a Percentage of Energy Use
8,788.5	101,186.6	8.7%

All Renewable Energy produced or procured (no double credit) (Billion BTU)	12054.3
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% of renewable energy produced or procured (no double credit) (Billion BTU)	11.9%
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1-9. WATER USE INTENSITY AND COST

Potable Water	Annual Consumption (Million Gallons)	Annual Cost (Thou. \$)	Facility Gross Square Feet (Thou.)	Gallons per Gross Square Foot
Buildings & Facilities Subject to Water Goal	116,752.0	\$358,806.6	1,952,056.2	59.8
				Percent
Approx. percentage of reported water consumption that is estimated:				7%
Is the FY 2007 agency water intensity baseline preliminary or final?				Final

PART 2: ENERGY EFFICIENCY IMPROVEMENTS

2-1. DIRECT AGENCY OBLIGATIONS

	FY 2007		Projected FY 2008	
	(Million Btu)	(Thou. \$)	(Million Btu)	(Thou. \$)
Direct obligations for facility energy efficiency improvements, including facility surveys/audits		\$168,111.7		\$233,571.7
Estimated annual savings anticipated from obligations	1,314,581.8	\$41,051.4	1,440,501.5	\$38,626.0

2-2. ENERGY SAVINGS PERFORMANCE CONTRACTS (ESPC)

	Annual savings (Million Btu)	(number/Thou. \$)
Number of ESPC Task/Delivery Orders awarded in fiscal year & annual energy (MMBTU) savings.	778,257.0	10.0
Investment value of ESPC Task/Delivery Orders awarded in fiscal year.		\$96,693.6
Amount privately financed under ESPC Task/Delivery Orders awarded in fiscal year.		\$96,211.6
Cumulative guaranteed cost savings of ESPCs awarded in fiscal year relative to the baseline spending.		\$257,836.2
Total contract award value of ESPCs awarded in fiscal year (sum of contractor payments for debt repayment, M&V, and other negotiated performance period services).		\$170,460.3
Total payments made to all ESPC contractors in fiscal year.		\$174,295.2

2-3. UTILITY ENERGY SERVICES CONTRACTS (UESC)

	Annual savings (Million Btu)	(number/Thou. \$)
Number of UESC Task/Delivery Orders awarded in fiscal year & annual energy (MMBTU) savings.	732,096.2	25.0
Investment value of UESC Task/Delivery Orders awarded in fiscal year.		\$90,896.6
Amount privately financed under UESC Task/Delivery Orders awarded in fiscal year.		\$89,205.6
Cumulative cost savings of UESCs awarded in fiscal year relative to the baseline spending.		\$88,950.7
Total contract award value of UESCs awarded in fiscal year (sum of payments for debt repayment and other negotiated performance period services).		\$133,855.0
Total payments made to all UESC contractors in fiscal year.		\$70,181.5

2-4. METERING OF ELECTRICITY USE

FY	Standard Meters		Advanced Meters	
	Cumulative # of Buildings Metered	Cumulative % of Electricity Metered	Cumulative # of Buildings Metered	Cumulative % of Electricity Metered
2007	28,170	30.6%	2,552	3.3%
2008 planned	28,202	33.2%	8,656	9.6%
Percentage of agency metering plan milestones met in FY 2007:				100%

2-5. FEDERAL BUILDING ENERGY EFFICIENCY STANDARDS

	Number of New Building Designs
Total new building designs started in FY 2007:	255
Total new building designs started in FY 2007 that are expected to be 30 percent more energy efficient than relevant code, where life-cycle cost effective:	99
Percent	
Percent of new building designs started in FY 2007 that are expected to be 30 percent more energy efficient than relevant code, where life-cycle cost effective:	39%

2-6. TRAINING

	(number)	(Thou. \$)
Number of personnel trained/Expenditure	19,291	\$1,824.3